

**RESPONSES TO
U.S. DEPARTMENT OF ENERGY
LETTERS TO STATE AGENCIES
AND NATIVE AMERICAN GROUPS**



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services
6950 Americana Parkway, Suite H
Reynoldsburg, Ohio 43068-4127

September 23, 2002

OFFICIAL FILE COPY
AMESQ

James L. Elmore, Ph.D.
Department of Energy
Oak Ridge Operations Office
P.O. Box 2001
Oak Ridge, TN 37831

Log No. _____
Date Received OCT 9 2002
File Code _____

Dear Dr. Elmore:

This responds to your letter of July 12, 2002 regarding Federally listed endangered or threatened species that may occur in the vicinity of the Portsmouth Gaseous Diffusion Plant (PORTS) located in Pike County, Ohio.

ENDANGERED SPECIES COMMENTS:

The proposed project lies within the range of the Indiana bat (*Myotis sodalis*), a Federally listed endangered species. Summer habitat requirements for the Indiana bat are not well defined, but the following are thought to be of importance:

1. Dead trees and snags (especially those with exfoliating bark), split tree trunk and/or branches, or cavities which may be used as maternity roosts;
2. Live trees (such as shagbark hickory) which have exfoliating bark;
3. Stream corridors, riparian areas, and upland woodlots which provide forage sites.

We recommend that if potential bat roost trees with the above characteristics are encountered in the project area, they should be saved wherever possible. If they must be cut, they should not be cut between April 15 and September 15.

If desirable trees are present and if the above time restriction is unacceptable, mist net or other surveys should be conducted to determine if bats are present. Any survey should be designed and conducted in coordination with the endangered species coordinator for this office, Ms. Angela Boyer (614-469-6923 ext. 22). The survey should be conducted in June or July, the period when peak bat populations could be expected.

The project lies within the range of the timber rattlesnake, a large shy rattlesnake that is declining throughout its national range. No Federal listing status has been assigned to this species. Instead, the U.S. Fish and Wildlife Service has initiated a pre-listing Conservation Action Plan to support state and local conservation efforts. Your proactive

efforts to conserve this species now may help avoid the need to list the species under the Endangered Species Act in the future. The timber rattlesnake is protected throughout much of its range and listed as endangered by the State of Ohio. Due to their rarity and reclusive nature, we encourage early project coordination to avoid potential impacts to timber rattlesnakes and their habitat.

In Ohio, the timber rattlesnake is restricted to the un-glaciated Allegheny Plateau and utilizes the specific habitat types, depending upon season. Winters are spent in dens usually associated with high, dry ridges. These dens may face any direction, but southeast to southwest are most common. Such dens usually consist of narrow crevices in the bedrock. Rocks may or may not be present on the surface. From these dens, timber rattlesnakes radiate throughout the surrounding hills and move distances as great as 4.5 miles. In the fall, timber rattlesnakes return to the same den. Intensive efforts to transplant timber rattlesnakes have not been successful. Thus protection of the winter dens is critical to the survival of this species. Some project management ideas include the following:

- 1) At a minimum, project evaluations should contain delineations of timber rattlesnake habitat within project boundaries. Descriptions should indicate the quality and quantity of timber rattlesnake habitat (den sites, basking sites, and foraging area, etc.) that may be affected by the project.
- 2) In cases where timber rattlesnakes are known to occur or where potential habitat is rated moderate to high, timber rattlesnake surveys may be necessary. If surveys are to be conducted, it may be helpful to inquire about timber rattlesnake sightings with local resource agency personnel or reliable local residents. In addition, local herpetologists may have knowledge of historical populations as well as precise knowledge of the habits, and the specific local types of habitats that may contain timber rattlesnakes. Surveys should be performed during the periods of spring emergence from dens (usually a short period in April or May) and throughout the active season until October. The species is often easiest to locate during the summer months when pregnant females seek open areas in early morning, especially after cool evenings.
- 3) In portions of projects where timber rattlesnakes will be affected, clearing and construction activities should occur at distances greater than 100 feet from known dens. Most importantly, tops of ridges and areas of exposed rock should be avoided.
- 4) In areas where timber rattlesnake dens are known or likely to exist, maintenance activities (mowing, cutting, burning, etc.) should be conducted from November 1 to March 1, when timber rattlesnakes are hibernating.

Two divisions of the Ohio Department of Natural Resources, the Division of Wildlife (614-265-6300) and the Division of Natural Areas and Preserves (614-265-6472), maintain lists of plants and animals of concern to the State of Ohio. If you have not already done so, you may wish to contact each of these agencies to obtain site-specific information about species of state concern.

If you have questions or we may be of further assistance in this matter please contact Mr. Bill Kurey of this office at 614-469-6923 ext. 14.

Sincerely,

A handwritten signature in black ink that reads "Mary Knapp". The signature is written in a cursive style with a large, prominent "M" and "K".

Mary Knapp, Ph.D.
Supervisor

cc: R. Sanders, ODOW

FISH & WILDLIFE COMMISSION

Mike Boatwright, Paducah
Tom Baker, Bowling Green
Allen K. Gailor, Louisville
Ron Southall, Elizabethtown
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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF FISH AND WILDLIFE RESOURCES
C. THOMAS BENNETT, COMMISSIONER

July 26, 2002

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Mr. James L. Elmore
Department of Energy
Oak Ridge Operations Office
P.O. Box 2001
Oak Ridge, TN 37831

Log No. 71283
Date Received AUG 2 2002
File Code _____

RE: Environmental Impact Statement Converting DUF6
Stored at Paducah Gaseous Diffusion Plant,
McCracken County, Kentucky

Dear Mr. Elmore:

I have reviewed the information provided on the above-referenced project. Accordingly, I offer the following comments and recommendations.

A review of the Kentucky Fish and Wildlife Information System indicates that several federal and/or state threatened and/or endangered species are known to occur within McCracken County that could be impacted by the project. That species list is attached. Please be aware that our database system is a dynamic one that only represents our current knowledge of the various species distributions. This information may also be obtained on the worldwide web at: www.kfwis.state.ky.us.

I would recommend that a habitat survey be conducted at the site of the proposed project and if any habitat that might harbor any of these species exists, then a specific survey for that species should be conducted. The results of those surveys will dictate if any additional surveys or analysis need to be conducted.

I appreciate the opportunity to comment.

Sincerely,

Wayne L. Davis
Environmental Section Chief

cc: Environmental Section Files



1 of 1

<i>Alosa alabamae</i>	Alabama shad	Osteichthyes	MCCRACKEN	C	E	Reference
<i>Atractosteus spatula</i>	alligator gar	Osteichthyes	MCCRACKEN		E	Reference
<i>Cyprinella camura</i>	bluntnose shiner	Osteichthyes	MCCRACKEN		E	Reference
<i>Hybognathus haysi</i>	cypress minnow	Osteichthyes	MCCRACKEN		E	Reference
<i>Myotis sodalis</i>	Indiana myotis	Mammalia	MCCRACKEN	LE	E	Reference
<i>Obovaria retusa</i>	ring pink	Bivalvia	MCCRACKEN	LE	E	Reference
<i>Notropis maculatus</i>	taillight shiner	Osteichthyes	MCCRACKEN		T	Reference
<i>Nyctanassa violacea</i>	yellow-crowned night-heron	Aves	MCCRACKEN		T	Reference



United States Department of the Interior

FISH AND WILDLIFE SERVICE

446 Neal Street
Cookeville, TN 38501

September 18, 2002

Mr. James L. Elmore, Ph.D.
U.S. Department of Energy
Oak Ridge Operations Office
P.O. Box 2001
Oak Ridge, Tennessee 37831

Dear Dr. Elmore:

Thank you for your letter and enclosures received July 23, 2002, regarding the preparation of an Environmental Impact Statement (EIS) for the proposed construction and operation of a facility to convert DUF₆ to a more stable chemical form at the Paducah Gaseous Diffusion Plant (PGDP) in McCracken County, Kentucky. The referenced maps of the PGDP and proposed facility locations were not included in your letter. U.S. Fish and Wildlife Service personnel have reviewed the information submitted and offer the following comments for consideration.

According to our records, the following federally listed endangered species may occur on or near the PGDP:

Indiana bat *Myotis sodalis*

A qualified biologist should assess potential impacts and determine if the proposed project may affect the species. We recommend that you submit a copy of your assessment and the draft EIS to this office for review and concurrence. A finding of "may affect" could require the initiation of formal consultation procedures.

These constitute the comments of the U.S. Department of the Interior in accordance with provisions of the Endangered Species Act (87 Stat. 884, as amended: 16 U.S.C. 1531 et seq.). We appreciate the opportunity to comment. Should you have any questions or need further assistance, please contact Steve Alexander of my staff at 931/528-6481, ext. 210, or via e-mail at steven_alexander@fws.gov.

Sincerely,

Lee A. Barclay, Ph.D.
Field Supervisor

xc: Wayne Davis, KDFWR, Frankfort
Laila Lienesch, FWS, Frankfort

DONALD S. DOTT, JR.
DIRECTOR



PAUL E. PATTON
GOVERNOR

COMMONWEALTH OF KENTUCKY
KENTUCKY STATE NATURE PRESERVES COMMISSION
801 SCHENKEL LANE
FRANKFORT, KENTUCKY 40601-1403
(502) 573-2886 VOICE
(502) 573-2355 FAX

August 12, 2002

James L. Elmore, Ph.D.
Department of Energy
Oak Ridge Operations Office
P.O. Box 2001
Oak Ridge, TN 37831-2001

Dear Dr. Elmore:

This letter is in response to your data request of July 12, 2002 for State-Listed species information in the vicinity of the Paducah Gaseous Diffusion Plant DUF₆ Conversion facility project. We have reviewed our Natural Heritage Program Database to determine if any of the endangered, threatened, or special concern plants and animals or exemplary natural communities monitored by the Kentucky State Nature Preserves Commission occur in the area. Based on our most current information, we have determined that 68 occurrences of the plants or animals and one occurrence of the exemplary natural communities that are monitored by KSNPC are reported as occurring in the specified area. Please see the attached report for more information. I have included a separate report of the species known from McCracken County, Kentucky as well.

Data and data products received from the Kentucky State Nature Preserves Commission, including any portion thereof, may not be reproduced in any form or by any means without the express written authorization of the Kentucky State Nature Preserves Commission. The exact location of plants, animals, and natural communities, if released by the Kentucky State Nature Preserves Commission, may not be released in any document or correspondence. These products are provided on a temporary basis for the express project (described above) of the requester, and may not be redistributed, resold or copied without the written permission of the Kentucky State Nature Preserves Commission's Data Manager (801 Schenkel Lane, Frankfort, KY, 40601. Phone: (502) 573-2886).



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August 12, 2002

Please note that the quantity and quality of data collected by the Kentucky Natural Heritage Program are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Kentucky have never been thoroughly surveyed, and new plants and animals are still being discovered. For these reasons, the Kentucky Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. Heritage reports summarize the existing information known to the Kentucky Natural Heritage Program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments. We would greatly appreciate receiving any pertinent information obtained as a result of on-site surveys.

If you have any questions or if I can be of further assistance, please do not hesitate to contact me.

Sincerely,



Sara Hines
Data Manager

Enclosures: Data Report and Interpretation Key, McCracken County List
Endangered, Threatened, and Special Concern Plants and Animals of Kentucky
Plants and Animals Presumed Extinct or Extirpated from Kentucky
Monitored Natural Communities of Kentucky

Data Key for Element and Occurrence Reports (v. 3.98)
 Kentucky State Nature Preserves Commission
 Natural Heritage Program Data Services

Many of the data fields on the enclosed report are easily understood. Other fields, however, use abbreviations and formats that are not always self-explanatory. A key to these fields follows. Your report may contain some or all of the following data fields.

BEARING:	Bearing in degrees from a center point to an occurrence's latitude and longitude. This field is masked for sensitive occurrences; contact KSNPC in these cases. Omitted for G, U, and Q precision occurrence records.
BESTSOURCE:	Best available reference to the occurrence: literature citation, collector, collection number, museum or herbarium code, etc.
COMMENTS:	Additional information about the occurrence including identification, taxonomy, or date of occurrence.
DIRECTIONS:	Directions to an occurrence. This field is masked for sensitive occurrences; contact KSNPC in these cases.
DISTANCE:	Distance from a center point to an occurrence's latitude and longitude. Units coded as M (miles), K (kilometers), and F (feet). This field is masked for sensitive occurrences; contact KSNPC in these cases. Omitted for G, U, and Q precision occurrence records.
ELCODE:	Element (species) code.
EOCODE:	Element (species) code, occurrence number (last three digits), and state.
EODATA:	Occurrence population data: date of observation, number of individuals, health, size of colony, flowering data, etc.
EORANK:	Judgement of occurrence quality: A = excellent, B = good, C = marginal, D = poor, E = verified extant but quality not judged, O = obscure (not found at reported site but more searching needed), H = historically known from site but no known observation or collection since 1975, X = extirpated from site.
FIRSTOBS:	Year of first known observation or collection.
GENDESC:	Description of an occurrence's habitat.
GRANK:	Estimate of element abundance on a global scale: G1 = extremely rare, G2 = rare, G3 = uncommon, G4 = common, G5 = very common, GH = historically known and expected to be rediscovered, GU = uncertain, GX = extinct. Subspecies and variety abundances are coded with a 'T' suffix; the 'G' portion of the rank then refers to the entire species.
HABITAT:	General description of the element's habitat across its range.
IDENT:	Whether the identification has been checked by a reliable individual and is believed to be correctly identified: Y = identification confirmed and believed correct, N = No, identification determined to be wrong despite reports to the contrary, ? = Whether identification is correct or not is confusing or disputed, blank or U = unknown whether identification correct or not, assumed correct.
KSNPC:	Kentucky State Nature Preserves Commission status: N or blank = none, E = endangered, T = threatened, S = special concern, H = historic, X = extirpated.
LASTOBS:	Year(-month-date) of most recent known observation or collection.
LAT:	Latitude. This field is masked for sensitive occurrences; contact KSNPC in these cases. Omitted for G, U and Q precision occurrences.
LONG:	Longitude. This field is masked for sensitive occurrences; contact KSNPC in these cases. Omitted for G, U and Q precision occurrences.
MAP NUMBER:	Number used to location the element on KSNPC Heritage maps.
MARGNUM:	See MAP NUMBER.
PREC:	See PRECISION.

KSNPC
Data Request No. 03-022

Rate Species and Communities Recorded for the Proposed DUF₆ Conversion Facility at the Paducah Gaseous Diffusion Plant.

Pg 1 of 7
8/12/02

ECCODE	SCINAME	SCINAME	BRANK	SPROT	IDENT	LASTOBS	PORANK	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
***Vascular Plants												
PDPAB060417015KY	BAPTISIA BRACTEATA VAR LEUCOPHAEA	CREAM WILD INDIGO	G4G5T4T5	S3	Y	1997-05-11	0	McCracken	HEATH		WEST KY WMA, RD AROUND NUCLEAR PLANT (DYKE RD).	PRAIRIES AND OPEN WOODS ON SANDY SOIL.
PDUJ061010022KY	CARYA AQUATICA	WATER HICKORY	G5	T	Y	1997-	0	McCracken	JOPPA		METROPOLIS LAKE.	BOTTOMLANDS AND FLOODPLAIN SWAMPS.
PDSTY010307021KY	HALESIA TETRAPTERA	MOUNTAIN SILVER-BELL	G2	R	Y	2001-04-13	0	McCracken	JOPPA		METROPOLIS LAKE SWP, SW END OF METROPOLIS LAKE, CA 0.3 AIR MILE OF POWERPLANT LOCATED OFF OF KY 996.	RICH WOODS AND EDGES OF SLOUGHS AND OXBOW LAKES.
PDSTY010307015KY	HALESIA TETRAPTERA	MOUNTAIN SILVER-BELL	G2	R	Y	1991-06-20	0	McCracken	JOPPA		CIRCA 1.0 AIR MI WNW OF N CORNER OF SETTLING PONDS FOR SHAWNEE STEAM PLANT ALONG RIDGE ABOVE OHIO RIVER.	RICH WOODS AND EDGES OF SLOUGHS AND OXBOW LAKES.
PDAST6C040701KY	MELANTHERA NIVEA	SNOW MELANTHERA	G5	S	Y	2001-07-23	0	McCracken	JOPPA		METROPOLIS LAKE, OFF KY 996, W OF PADUCAH.	FLOODPLAINS AND SANDY WOODS INCLUDING DISTURBED OPENINGS.
PMP0A4805005KY	MUHLENBERGIA GLABRIFLORIS	HAIR GRASS	G4?	S2S3	Y	1977-08-21	0	McCracken	JOPPA		ALONG METROPOLIS FERRY ROAD, OFF OF KY 1420, 725 BETWEEN KY 726 AND KY 1154 (MARGINUM 34, 37055N, 844838W), (MARGINUM 35, 370513N, 844859W), (MARGINUM 36, 370521N, 844905W), (MARGINUM 37, 370515N, 844908W), (MARGINUM 38, 370517N, 844918W); JCT OF MAGRUDER RD	DRY, DESICCATED OR BAKED SOILS, PRAIRIES, GRAVELS, OR ROCKY SLOPES AND MEDLEY REPORTS WET WOODS, MARSH EDGES AND FIELDS.
PDASTL0827015KY	SILPHIUM LACINATUM VAR ROBINSOII	COMPASS PLANT	G5T?	S2	Y	1993-07	0	McCracken	HEATH		WEST KENTUCKY WILDLIFE MANAGEMENT AREA BETWEEN SPRING BAYOU (BAYOU CREEK) AND ACID RD, CA 0.5 AIR MI NW OF SPRING BAYOU CHURCH.	PRAIRIES INCL. REMNANTS OF THIS FLORA ON ROADSIDES AND FIELDS.
PDASTL0827025KY	SILPHIUM LACINATUM VAR ROBINSOII	COMPASS PLANT	G5T?	T	Y	1993-07	0	McCracken	HEATH		BOTH SIDES OF UNPAVED GRAVEL RD, CA 0.7 AIR M S OF SOUTH ACID RD (MARGINUM 23), (MARGINUM 22, 370510N, 844935W), (MARGINUM 40, 37053N, 844948W), (MARGINUM 41, 370548N, 844932W), (MARGINUM 42, 370545N, 844945W).	PRAIRIES INCL. REMNANTS OF THIS FLORA ON ROADSIDES AND FIELDS.
PDASTL0827016KY	SILPHIUM LACINATUM VAR ROBINSOII	COMPASS PLANT	G5T?	T	Y	1993-07	0	McCracken	HEATH		WEST KENTUCKY WILDLIFE MANAGEMENT AREA BETWEEN SPRING BAYOU (BAYOU CREEK) AND ACID RD, CA 0.5 AIR MI NW OF SPRING BAYOU CHURCH.	PRAIRIES INCL. REMNANTS OF THIS FLORA ON ROADSIDES AND FIELDS.
***Gastropod												
IMGASG107009KY	LEPTOXIS PRAEIOSA	ONYX ROCKSMAIL	G5S4	S	Y	1980-10-18	0	McCracken	JOPPA		OHIO RIVER AT MILE 446.0, LITTLE CHAIN BAR.	CALL (1815) INDICATED THAT IN THE OHIO RIVER AT THE FALLS IT OCCURRED IN THE GREATEST PROPORTION WHERE THE BOTTOM IS CLEAN ROCK OR ROCK WITH ABUNDANT "CONFERVOID" VEGETATION.
IMGASG107023KY	LITHASIA VERRUCOSA	VARICOSE ROCKSMAIL	G3G4	S	Y	1980-10-08	0	McCracken	JOPPA		OHIO RIVER AT MILE 446.0, LITTLE CHAIN BAR.	OBSERVATIONS ON THE HABITAT INCLUDE SPECIMENS TAKEN FROM RECENTLY EXPOSED BARS AND POOLS WITH SAND, GRAVEL, AND ROCK SUBSTRATES (HAAG AND PALMER-BALL, PERS COMM).

Rare Species And Communities Recorded for the Proposed DUF6 Conversion Facility at the Paducah Gaseous Diffusion Plant.

KSNPC
Data Request No. 08-022

ECCODE	SNAME	SCOMNAME	SRANK	SRANK	SPROT	USESA	DENT	LASTOBS	PREC	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
***Bivalves														
IMBV21107054*XY	LAMPUSILUS ABRUPTA	PINK MUCKET	33	33	Y	LE	Y	2001-08-31	3	McCracken	JOPPA	OHIO RIVER MILE 948.4, CA 120 M FROM KY SHORE.	OHIO RIVER MILE 948.4, CA 120 M FROM KY SHORE.	APPARENTLY MORE COMMONLY FROM GRAVEL AND COBBLE, COLLECTED FROM SHALLOW AND DEEP WATER WITH CURRENT VELOCITY RANGING FROM ZERO TO SWIFT (AHLSTEDT 1983, BOGAN AND PARMALEE 1983, BUCHANAN 1989), BUT NEVER STANDING POOLS OF WATER (LAURITSEN PARMALEE 1987, STANSEERY 1976), BUT OCCURS IN MEDIUM-SIZED STREAMS IN GRAVEL, SAND, OR EVEN MUD (PARMALEE 1987, JOHNSON 1970, GORDON AND LAYZER 1989). IN THE LOWER WABASH AND OHIO RIVERS SPECIMENS WERE TAKEN IN DEEP WATER (6-10 FEET OR MORE) IN CURRENT FROM SAND
IMBV211307079*XY	LAMPUSILUS OVATA	POCKETBOOK	33	33	Y	LE	Y	1954-06-30	3	McCracken	JOPPA	OHIO RIVER BETWEEN METROPOLIS AND JOPPA (PLOTTED AT MIDPOINT).	OHIO RIVER BETWEEN METROPOLIS AND JOPPA (PLOTTED AT MIDPOINT).	USUALLY FOUND IN LARGE RIVERS IN SAND AND GRAVEL SUBSTRATES (AHLSTEDT 1983, BOGAN AND PARMALEE 1983, MILLER, A.C. ET AL. 1986).
IMBV240207032*XY	PLETHOBASIS COOPERIANUS	ORANGEFOOT PINPLEBACK	31	31	Y	LE	Y	1907-08-18	3	McCracken	BANDANA	OHIO RIVER AT HILLERMAN, IL.	OHIO RIVER AT HILLERMAN, IL.	USUALLY FOUND IN LARGE RIVERS IN SAND AND GRAVEL SUBSTRATES (AHLSTEDT 1983, BOGAN AND PARMALEE 1983, MILLER, A.C. ET AL. 1986).
IMBV240207053*XY	PLETHOBASIS COOPERIANUS	ORANGEFOOT PINPLEBACK	31	31	Y	LE	Y	1999-08-07	3	McCracken	JOPPA	OHIO R. AT LITTLE CHAIN BAR CA R MI 948.	OHIO R. AT LITTLE CHAIN BAR CA R MI 948.	USUALLY FOUND IN LARGE RIVERS IN SAND AND GRAVEL SUBSTRATES (AHLSTEDT 1983, BOGAN AND PARMALEE 1983, MILLER, A.C. ET AL. 1986).
IMBV240207055*XY	PLETHOBASIS COOPERIANUS	ORANGEFOOT PINPLEBACK	31	31	Y	LE	Y	2001-08-31	3	McCracken	JOPPA	OHIO RIVER MILE 948.4, CA 120 M FROM KY SHORE.	OHIO RIVER MILE 948.4, CA 120 M FROM KY SHORE.	USUALLY FOUND IN LARGE RIVERS IN SAND AND GRAVEL SUBSTRATES (AHLSTEDT 1983, BOGAN AND PARMALEE 1983, MILLER, A.C. ET AL. 1986).
IMBV240307080*XY	PLETHOBASIS CYPHIUS	SHEEPIOSE	33	33	Y	LE	Y	1954-06-30	3	McCracken	JOPPA	OHIO RIVER BETWEEN METROPOLIS AND JOPPA (PLOTTED AT MIDPOINT).	OHIO RIVER BETWEEN METROPOLIS AND JOPPA (PLOTTED AT MIDPOINT).	USUALLY FOUND IN LARGE RIVERS IN CURRENT ON MUD, SAND, OR GRAVEL BOTTOMS AT DEPTH OF 1-2 METERS OR MORE (BAKER 1928, PARMALEE 1987, GORDON AND LAYZER 1989).
IMBV240307087*XY	PLETHOBASIS CYPHIUS	SHEEPIOSE	33	33	Y	LE	Y	1955-05-17	3	McCracken	JOPPA	OHIO RIVER AT JOPPA.	OHIO RIVER AT JOPPA.	USUALLY FOUND IN LARGE RIVERS IN CURRENT ON MUD, SAND, OR GRAVEL BOTTOMS AT DEPTH OF 1-2 METERS OR MORE (BAKER 1928, PARMALEE 1987, GORDON AND LAYZER 1989).
IMBV240307085*XY	PLETHOBASIS CYPHIUS	SHEEPIOSE	33	33	Y	LE	Y	1907-08-18	3	McCracken	BANDANA	OHIO RIVER AT HILLERMAN, IL.	OHIO RIVER AT HILLERMAN, IL.	USUALLY FOUND IN LARGE RIVERS IN CURRENT ON MUD, SAND, OR GRAVEL BOTTOMS AT DEPTH OF 1-2 METERS OR MORE (BAKER 1928, PARMALEE 1987, GORDON AND LAYZER 1989).
IMBV240307125*XY	PLETHOBASIS CYPHIUS	SHEEPIOSE	33	33	Y	LE	Y	1999-08	3	McCracken	JOPPA	OHIO RIVER AT LITTLE CHAIN BAR, CA MI 948.	OHIO RIVER AT LITTLE CHAIN BAR, CA MI 948.	USUALLY FOUND IN LARGE RIVERS IN CURRENT ON MUD, SAND, OR GRAVEL BOTTOMS AT DEPTH OF 1-2 METERS OR MORE (BAKER 1928, PARMALEE 1987, GORDON AND LAYZER 1989).
IMBV270307001*XY	POTAMILUS CAPAX	FAT POCKETBOOK	31	31	Y	LE	Y	1907-08	3	McCracken	BANDANA	OHIO R. AT HILLERMAN, MASSAC CO., ILL.	OHIO R. AT HILLERMAN, MASSAC CO., ILL.	BACK CHANNELS, AND SOMETIMES IN DITCHES, IN MUD (COZZE), MIXED SAND, MUD, AND CLAY; OR FINE SILT AND MUD IN FLOWING WATER AT DEPTHS OF A FEW INCHES UP TO EIGHT FEET (PARMALEE 1987, AHLSTEDT AND JENKINSON 1987, CUMMINGS AND MAYER 1983, CUMMINGS ET AL. 1980).
IMBV270307029*XY	POTAMILUS CAPAX	FAT POCKETBOOK	31	31	Y	LE	Y	1999-09-07	3	McCracken	JOPPA	OHIO RIVER AT CA R MI 948.6, BAR AT POWERLINE CROSSING.	OHIO RIVER AT CA R MI 948.6, BAR AT POWERLINE CROSSING.	BACK CHANNELS, AND SOMETIMES IN DITCHES, IN MUD (COZZE), MIXED SAND, MUD, AND CLAY; OR FINE SILT AND MUD IN FLOWING WATER AT DEPTHS OF A FEW INCHES UP TO EIGHT FEET (PARMALEE 1987, AHLSTEDT AND JENKINSON 1987, CUMMINGS AND MAYER 1983, CUMMINGS ET AL. 1980).
IMBV280417041*XY	QUADRULA CYLINDRICA CYLINDRICA	RABBITSFOOT	33	33	Y	LE	Y	1907-08-18	3	McCracken	BANDANA	OHIO RIVER AT HILLERMAN, IL.	OHIO RIVER AT HILLERMAN, IL.	SMALL TO LARGE RIVERS WITH SAND, GRAVEL, AND COBBLE AND MODERATE TO SWIFT CURRENT, SOMETIMES IN DEEP WATER (PARMALEE 1987, BOGAN AND PARMALEE 1983).

ECCODE	SWNAME	SCOMNAME	GRANK	SRANK	SFROT	USESA	IDENT	LASTOBS	PREC	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
IMBV03041007KY	QUADRULA CYLINDRICA CYLINDRICA	RABBITSFOOT	G3T3	S2	T	Y		1987-05-21	o	McCracken	JOPPA			SMALL TO LARGE RIVERS WITH SAND, GRAVEL, AND COBBLE AND MODERATE TO SWIFT CURRENT. SOMETIMES IN DEEP WATER (PARMALEE 1997, BOGAN AND PARMALEE 1983).
***Cnidarians														
ICMALL10907004KY	ORCONICTES LANCIFER	A GRAYFISH	GS	S1	E	Y		1975-04-28	o	McCracken	JOPPA			OXBOW LAKES AND STREAMS ON THE GULF COASTAL PLAIN (PAGE 1983) WHERE IT LIVES AMONG ORGANIC DEBRIS, USUALLY NEAR BALD CYPRESS (BURR AND HOBBS 1984).
***Fishes														
AFCA00201002KY	ATRACTOSTEUS SPATULA	ALLIGATOR GAR	G3G4	S1	E	Y		1975-06-27	o	McCracken	JOPPA			SLEIGH POOLS AND BACKWATERS OF LARGE RIVERS, BACKWATERS, AND OXBOW LAKES (BURR AND WARREN 1986, PAGE AND BURR 1991, ETNIER AND STARINES 1992).
AFCL03502008KY	ERIMYZON SUCCETTA	LAKE CHUBSUCKER	GS	S2	T	Y			o	McCracken	JOPPA			LOWLAND LENTIC HABITATS (WETLANDS AND FLOODPLAIN LAKES) WITH SUBMERGED AND FLOATING VEGETATION (BURR AND WARREN 1986, ETNIER AND STARINES 1992).
AFCH0010407003KY	ESOX NIGER	CHAIN PICKEREL	GS	S3	S	Y		1972-05-28	o	McCracken	JOPPA			COASTAL PLAIN WETLANDS, STREAMS, AND VEGETATED OXBOW LAKE SHORELINES, AND IT ALSO TOLERATES RESERVOIR CONDITIONS (BURR AND WARREN 1986, ETNIER AND STARINES 1992).
AFCL06160307004KY	HYBOMYXINUS HATI	CYPRESS MINNOW	GS	S1	E	Y		1989-07-21	o	McCracken	JOPPA			COASTAL PLAIN AND SHAWNEE HILLS, USUALLY OVER MUD OR SAND BOTTOMS, BUT OCCASIONALLY ASSOCIATED WITH SUBMERGED AQUATIC VEGETATION OR OTHER COVER (BURR AND WARREN 1986, PFLIEGER 1975, SMITH 1979, GILBERT 1990, BURR ET AL. 1980). NEEDS WETLANDS ADJACENT CONSISTS OF GRAVEL AND RUBBLE WITH AREAS OF SAND AND SILT.
AFBA00207006KY	ICHTHYOMYZON CASTANEUS	CHESTNUT LAMPREY	GS	S2	S	Y		1951-	o	McCracken	JOPPA			LARVAE REQUIRE CLEAR STREAMS WITH STABLE BARS OF SILT, SAND AND ORGANIC DETRITUS (BECKER 1983, PFLIEGER 1975, RORDE AND LANTEIGNE-COURCHERE 1989, SCOTT AND CROSSMAN 1973, SMITH 1979).
AFBA00207007KY	ICHTHYOMYZON CASTANEUS	CHESTNUT LAMPREY	GS	S2	S	Y		1951-	o	McCracken	METROPOLIS			CONSISTS OF GRAVEL AND RUBBLE WITH AREAS OF SAND AND SILT. LARVAE REQUIRE CLEAR STREAMS WITH STABLE BARS OF SILT, SAND AND ORGANIC DETRITUS (BECKER 1983, PFLIEGER 1975, RORDE AND LANTEIGNE-COURCHERE 1989, SCOTT AND CROSSMAN 1973, SMITH 1979).
AFBA00207010KY	ICHTHYOMYZON CASTANEUS	CHESTNUT LAMPREY	GS	S2	S	Y		1974-04-17	o	McCracken	JOPPA			CONSISTS OF GRAVEL AND RUBBLE WITH AREAS OF SAND AND SILT. LARVAE REQUIRE CLEAR STREAMS WITH STABLE BARS OF SILT, SAND AND ORGANIC DETRITUS (BECKER 1983, PFLIEGER 1975, RORDE AND LANTEIGNE-COURCHERE 1989, SCOTT AND CROSSMAN 1973, SMITH 1979).
AFCL0070307016KY	ICTIOBUS NIGER	BLACK BUFFALO	SB	S3	S	Y		1997-08-30	o	McCracken	JOPPA			RESERVOIRS AND MEDIUM TO LARGE RIVERS WITH MODERATE TO LOW GRADIENT AND SOME TIME SWIFT CURRENT (BECKER 1983, PFLIEGER 1975, SMITH 1979, TRAUTMAN 1981, AND BURR AND WARREN 1986).
AFCL0070307025KY	ICTIOBUS NIGER	BLACK BUFFALO	SB	S3	S	Y		1996-04	o	McCracken	JOPPA			RESERVOIRS AND MEDIUM TO LARGE RIVERS WITH MODERATE TO LOW GRADIENT AND SOME TIME SWIFT CURRENT (BECKER 1983, PFLIEGER 1975, SMITH 1979, TRAUTMAN 1981, AND BURR AND WARREN 1986).

ECCODE	SCINAME	SHNAME	SCOMNAME	SRANK	SRANK	SPROT	USES	IDENT	LASTDTS	PREC	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
AFC02070307027KY	ICTOBUS NIGER		BLACK BUFFALO	G	S2	S	Y	Y	1977-03	0	McCracken	JOPPA		BIG BAYOU CREEK (CA. 0.4 STREAM KM S OF WEST BOONE RD CROSSING)	RESERVOIRS AND MEDIUM TO LARGE RIVERS WITH MODERATE TO LOW GRADIENT AND SOMETIMES SWIFT CURRENT (BECKER 1983, PFLIEGER 1975, SMITH 1979, TRAUTMAN 1981, AND BURR AND WARREN 1986).
AFC0B112070327KY	LEPOMIS MINIATUS		REDSPOTTED SUNFISH	G	S2	T	Y	Y	1997-03	0	McCracken	HEATH		LITTLE BAYOU CK AT KY 338 (SITE 12)	OCCURS IN WELL-VEGETATED SWAMPS, SLOUGHS, BOTTOMLAND LAKES, AND LOW GRADIENT STREAMS (BURR AND MAYDEN 1979, PFLIEGER 1975, SMITH 1979, BURR AND WARREN 1986, ETNIER AND STARNES 1989).
AFC0B112070357KY	LEPOMIS MINIATUS		REDSPOTTED SUNFISH	G	S2	T	Y	Y	1996-04	0	McCracken	JOPPA		LITTLE BAYOU AT UNNAMED RD (SITE 10) (NR HOOPER CEMETERY CA 2.0 AIR KM NW OF KY #66(KY 142) JCT.)	OCCURS IN WELL-VEGETATED SWAMPS, SLOUGHS, BOTTOMLAND LAKES, AND LOW GRADIENT STREAMS (BURR AND MAYDEN 1979, PFLIEGER 1975, SMITH 1979, BURR AND WARREN 1986, ETNIER AND STARNES 1989).
AFC0B112070347KY	LEPOMIS MINIATUS		REDSPOTTED SUNFISH	G	S2	T	Y	Y	1996-06	0	McCracken	JOPPA		BIG BAYOU CREEK AT BOLDY RD, 2.8 RIVER KM FROM MOUTH (SITE 14)	OCCURS IN WELL-VEGETATED SWAMPS, SLOUGHS, BOTTOMLAND LAKES, AND LOW GRADIENT STREAMS (BURR AND MAYDEN 1979, PFLIEGER 1975, SMITH 1979, BURR AND WARREN 1986, ETNIER AND STARNES 1989).
AFC0B11207007KY	LEPOMIS MINIATUS		REDSPOTTED SUNFISH	G	S2	T	Y	Y	1996-04-02	0	McCracken	JOPPA		METROPOLIS LAKE, 4.8 KM N OF GRAHAMVILLE	OCCURS IN WELL-VEGETATED SWAMPS, SLOUGHS, BOTTOMLAND LAKES, AND LOW GRADIENT STREAMS (BURR AND MAYDEN 1979, PFLIEGER 1975, SMITH 1979, BURR AND WARREN 1986, ETNIER AND STARNES 1989).
AFC0A020107007KY	MENIDIA BERYLLINA		INLAND SILVERSIDE	G	S2	T	Y	Y	1992-06-04	0	McCracken	JOPPA		OHIO RIVER NEAR JOPPA.	SCHOOLING SURFACE FISH THAT OCCURS IN THE MISSISSIPPI RIVER AND FLOODPLAIN LAKES (BURR AND WARREN 1986, ETNIER AND STARNES 1989).
AFC0A020107009KY	MENIDIA BERYLLINA		INLAND SILVERSIDE	G	S2	T	Y	Y	1992-09-25	0	McCracken	JOPPA		OHIO RIVER MILE 844-848, NEAR SHAWNEE STEAM PLANT.	SCHOOLING SURFACE FISH THAT OCCURS IN THE MISSISSIPPI RIVER AND FLOODPLAIN LAKES (BURR AND WARREN 1986, ETNIER AND STARNES 1989).
AFC0A020107012KY	MENIDIA BERYLLINA		INLAND SILVERSIDE	G	S2	T	Y	Y	1993-07-21	0	McCracken	JOPPA		METROPOLIS LAKE AT BOAT RAMP.	SCHOOLING SURFACE FISH THAT OCCURS IN THE MISSISSIPPI RIVER AND FLOODPLAIN LAKES (BURR AND WARREN 1986, ETNIER AND STARNES 1989).
AFC0B068507002KY	NOTROPIS MACULATUS		TALLIGHT SHINER	G	S2S3	T	Y	Y	1998-04-02	0	McCracken	JOPPA		METROPOLIS LAKE, 5 KM N GRAHAMVILLE	LOW GRADIENT STREAMS, OXBOW LAKES, AND SLOUGHS IN AND AROUND CYPRESS KNEES, MARGINAL VEGETATION, AND ACCUMULATIONS OF STICKS AND DETRITUS (BURR AND PAGE 1973, BURR AND WARREN 1986, ETNIER AND STARNES 1989).
AFC0A022207047KY	NOTURUS STIGMOSUS		NORTHERN MADTOW	G	S2S3	S	Y	Y	1999-06-08	0	McCracken	JOPPA		OHIO RIVER AT SHAWNEE STEAM PLANT, NW OF PADUCAH.	LARGE STREAMS AND RIVERS IN MODERATE TO SWIFT CURRENT OVER GRAVEL AND SAND, AND SOMETIMES DEERS OR PONIWEED FOR COVER (BURR AND WARREN 1986, ETNIER AND STARNES 1989).
AFC0A022207037KY	NOTURUS STIGMOSUS		NORTHERN MADTOW	G	S2S3	S	Y	Y	1999-06-08	0	McCracken	JOPPA		OHIO R AT LITTLE CHAIN BAR.	LARGE STREAMS AND RIVERS IN MODERATE TO SWIFT CURRENT OVER GRAVEL AND SAND, AND SOMETIMES DEERS OR PONIWEED FOR COVER (BURR AND WARREN 1986, ETNIER AND STARNES 1989).
AAABC020607035KY	HYLA CINEREA		GREEN TREEFROG	G	S3	S	Y	Y	1987-06-28	0	McCracken	JOPPA		CIRCA 0.3 AIR MI SW OF TIP OF SHAWNEE STEAM PLANT SETTLING PONDS.	FLOODPLAIN WETLANDS, PARTICULARLY THOSE DOMINATED BY BUTTONBUSH AND HERBACEOUS EMERGENT VEGETATION.

***Amphibians

Rare Species And Communities Recorded for the Proposed DUF₆ Conversion Facility at the Paducah Gaseous Diffusion Plant.

KSNPC
Data Request No. 03-022

ECCODE	SWNAME	SCOMNAME	BRANK	SRANK	SPROT	IDENT	LASTOBS	PRE	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
AAAB010147034*XY	HYLA CINEREA	GREEN TREEFROG	S3	S3	S	Y	1991-06-25	o	McCracken	JOPPA		WEST KENTUCKY WILDLIFE MANAGEMENT AREA, CA 1.4 AIR MI NW OF THE TIP OF THE IN-MOST SHANNEE STEAM PLANT SETTLING POND.	FLOODPLAIN WETLANDS, PARTICULARLY THOSE DOMINATED BY BUTTONBUSH AND HERBACEOUS EMERGENT VEGETATION.
AAAB01014749*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1964-03-07	o	McCracken	PADUCAH WEST		US 62, 3.0 MI SW OF PADUCAH.	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB01014750*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1964-03-13	o	McCracken	HEATH		US 60, 0.6 MI E OF FUTURE CITY, 10 MI W OF PADUCAH.	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB010147071*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1991-03-18	o	McCracken	JOPPA		MARTIN CEMETERY, S SIDE KY 358 CA 0.6 RD MI E JCT BETHEL CHURCH RD.	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB010147007*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1991-03-20	o	McCracken	HEATH		CIRCA 0.2 AIR MI E OF KY 154, CA 1.2 RD MI N OF ITS JCT W US 60.	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB010147013*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1991-03-18	o	McCracken	JOPPA		CIRCA 0.3 RD MI E OF BETHEL CHURCH RD, CA 1.0 RD MI S JCT KY 358 (MARGNUM 33); CA 1.0 AIR MI SSE JCT KY 358 AND BETHEL CHURCH ROAD (MARGNUM 34, 37078N, 88484W).	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB010147009*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1991-03-18	o	McCracken	HEATH		WEST KENTUCKY WILDLIFE MANAGEMENT AREA, N SIDE WATER WORKS RD JUST W OF FILTRATION PLANT.	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB010147010*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1991-03-20	o	McCracken	HEATH		MI NW JCT KY 358 AND CORDEN LANDING RD (MARGNUM 14), WEST KY WMA, CA 1.3 RD MI W JCT KY 986 AND KY 358 ON N SIDE KY 358 (MARGNUM 15, 37072N, 88478W), WEST KY WMA, 1.5 RD MI W OF JCT KY 986 AND KY 358, 0.15 AIR MI S OF WEST KENTUCKY WILDLIFE MANAGEMENT AREA, CA 0.1 RD MI NW OF JCT KY 358 AND KY 985, DOWN ROAD JUST SE OF LODGE (MARGNUM 36), AND CA 0.15 RD MI NW OF JCT KY 358 AND KY 985, DOWN RD JUST SE OF LODGE (MARGNUM 39).	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB010147015*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1998-02-27	o	McCracken	JOPPA		WEST KENTUCKY WILDLIFE MANAGEMENT AREA, CA 0.6 RD MI SW OF KY 985 AND KY 358, CA 0.15 AIR MI W OF KY 985, CA 0.3 RD MI SW OF AREA OFFICE (LODGE).	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB010147014*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1991-03-18	o	McCracken	JOPPA		CIRCA 0.4 AIR MI NW OF SPRING BAYOU CHURCH ON KY 725 (MARGNUM 11), CA 0.7 RD MI W OF SPRING BAYOU CHURCH ON KY 725 ON N SIDE OF RD (MARGNUM 12, 37624N, 88503W).	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB010147008*XY	APALONE MUTICA MUTICA	MIDLAND SMOOTH SOFTSHELL	G4T5	S3	S	Y	1996-07-16	o	McCracken	METROPOLIS		OPEN WATER HABITATS: MOST NUMEROUS IN OPEN RIVER SITUATIONS WITH GRAVEL OR SAND SUBSTRATES, BUT ALSO PRESENT IN SLOWER RIVERS AND IMPOUNDMENTS.	

***Replies

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8/12/02

Rare Species and Communities Recorded for the Proposed DUF₆ Conversion Facility at the Paducah Gaseous Diffusion Plant.

KSNPC
Data Request No. 08-022

ECCODE	SMIAC	SCOMNAME	GRANK	SRANK	SPROT	USESA	IDENT	LASTORS	PREC	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
ABPB01607028KY	AMOPHILA AESTIVALIS	BACHMAN'S SPARROW	G3	S1B	Y	Y	Y	1851-07-17	X	McCracken	PADUCAH WEST	OHIO RIVER FROM TENNESSEE RIVER TO MISSISSIPPI RIVER	5 MI W OF PADUCAH.	OPEN PINE WOODS WITH SCATTERED BUSHES OR UNDERSTORY BRUSH OR OVERGROWN HILLSIDES, OVERGROWN FIELDS WITH THICKETS AND BRAMBLES, GRASSY ORCHARDS, BEACHES, BAYS, LAGOONS, INLETS, SWAMPS, NEAR MARSHES, AND, LESS FREQUENTLY, DECIDUOUS OR CONIFEROUS WOODLAND, IN LAND SITUATIONS PRIMARILY IN BALD CYPRESS SWAMPS AND ALONG MAJOR WATERCOURSES. ALSO GARBAGE DUMPS.
ABPW10280704KY	CORVUS OSSIFRAGUS	FISH CROW	G3	S3B, S3D	Y	Y	Y	1980-06-27	H	McCracken	JOPPA	TENNESSEE RIVER TO MISSISSIPPI RIVER	WEST KY WMA, ALONG OHIO RIVER AT EDGE OF BOTTOMLAND FOREST.	STREAMS, LAKES, SWAMPS, MARSHES, AND ESTUARIES, WINTERS MOSTLY IN FRESHWATER BUT ALSO REGULARLY IN ESTUARIES AND SHELTERED BAYS (BSCCONGIMA).
ABNB20107004KY	LOPHODITES CUCULLATUS	HOODED MERGANSER	G3	S12B, S33D	Y	Y	Y	1980-05-08	H	McCracken	JOPPA	WEST KENTUCKY WILDLIFE MANAGEMENT AREA, 3.9 MI NNW OF GRAHAMVILLE.	DENSE BRUSH, MESQUITE, STREAMSIDE THICKETS, AND SCRUB OAK, IN ARID REGIONS BUT OFTEN NEAR WATER (BSCCONGIMA); MOST WOODLAND, BOTTOMLANDS, WOODLAND EDGE, SCATTERED COVER AND HEDGEROWS IN CULTIVATED AREAS, OPEN WOODLAND, BRUSH IN WINT.	
ABPW01107001KY	VIREO BELLII	BELL'S VIREO	G3	S23B	Y	Y	Y	1980-06-27	H	McCracken	JOPPA	ALONG LITTLE BAYOU CREEK, ADJ TO THE W SIDE OF THE ASH SETTLING POND AT THE SHAWNEE STEAM PLANT, 6 MI NNW OF GRAHAMVILLE.	DENSE BRUSH, MESQUITE, STREAMSIDE THICKETS, AND SCRUB OAK, IN ARID REGIONS BUT OFTEN NEAR WATER (BSCCONGIMA); MOST WOODLAND, BOTTOMLANDS, WOODLAND EDGE, SCATTERED COVER AND HEDGEROWS IN CULTIVATED AREAS, OPEN WOODLAND, BRUSH IN WINT.	
ABPW11107002KY	VIREO BELLII	BELL'S VIREO	G3	S23B	Y	Y	Y	1984-05-05	H	McCracken	JOPPA	WEST KENTUCKY WMA, W SIDE OF MAIN GRAVEL RD, CA 1.0 MIS OF ENTRANCE ON KY 358.	DENSE BRUSH, MESQUITE, STREAMSIDE THICKETS, AND SCRUB OAK, IN ARID REGIONS BUT OFTEN NEAR WATER (BSCCONGIMA); MOST WOODLAND, BOTTOMLANDS, WOODLAND EDGE, SCATTERED COVER AND HEDGEROWS IN CULTIVATED AREAS, OPEN WOODLAND, BRUSH IN WINT.	
***Mammals														
AMCC010307028KY	MYOTIS AUSTRORIPARIUS	SOUTHEASTERN MYOTIS	G3G4	S1S2	Y	Y	Y	1998-07-14	H	McCracken	HEATH	WEST KENTUCKY WMA, BAYOU CREEK JUST UPSTREAM OF SOUTH ACID RD.	THE SOUTHEASTERN MYOTIS USES PRIMARILY CAVES FOR HIBERNACULA AND SUMMER MATERNITY AND ROOSTING SITES.	
AMCC010307027KY	MYOTIS AUSTRORIPARIUS	SOUTHEASTERN MYOTIS	G3G4	S1S2	Y	Y	Y	1998-07-22	H	McCracken	JOPPA	BAYOU CREEK RIDGE STATE NATURAL AREA, W END ON H SIDE OF CREEK, CA 0.1 AIR MI SE OF END OF WMA RD TO OHIO RIVER.	THE SOUTHEASTERN MYOTIS USES PRIMARILY CAVES FOR HIBERNACULA AND SUMMER MATERNITY AND ROOSTING SITES.	
AMCC01100701KY	MYOTIS SODALIS	INDIANA BAT	G2	S1S2	Y	Y	Y	1989-07-28	H	McCracken	JOPPA	WEST KENTUCKY WILDLIFE MANAGEMENT AREA, W OF BAYOU CREEK RIDGE SMA, CA 0.1 AIR MI SE OF END OF RD (MARGNUM 24), AND CA 0.15 RD MI SE OF BAYOU CREEK ALONG OLD RD (MARGNUM 88).	INDIANA BATS USE PRIMARILY CAVES FOR HIBERNACULA, ALTHOUGH THEY ARE OCCASIONALLY FOUND IN OLD MINE PORTALS.	
AMCC060107015KY	NYCTICEBUS HUMERALLIS	EVENING BAT	G3	S233	Y	Y	Y	1989-07-28	H	McCracken	JOPPA	0.4 AIR MI SSE OF END OF RD TO OHIO RIVER (MARGNUM 26), AND JUST DOWNSTREAM OF GRAVEL RD CROSSING (MARGNUM 88), AND W OF BAYOU CR RIDGE, CA 0.1 AIR MI SE OF N END OF WMA ROAD TO THE OHIO RIVER (MARGNUM 28).	THE EVENING BAT IS A COLONIAL SPECIES THAT ROOSTS IN TREES AND HOUSES. IT APPARENTLY MIGRATES SOUTHWARD IN WINTER.	
AMCC060107047KY	NYCTICEBUS HUMERALLIS	EVENING BAT	G3	S233	Y	Y	Y	1989-08-02	H	McCracken	JOPPA	WEST KY WMA, ALONG BAYOU CREEK CA 0.8 AIR MI WSW OF HEADQUARTERS.	THE EVENING BAT IS A COLONIAL SPECIES THAT ROOSTS IN TREES AND HOUSES. IT APPARENTLY MIGRATES SOUTHWARD IN WINTER.	

***Palustrine Communities

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8/12/02

Rare Species And Communities Recorded for the Proposed DUF₆ Conversion Facility at the Paducah Gaseous Diffusion Plant.

KSNPC
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ECCODE	SNAME	SCOMNAME	SRANK	SPROT	USESA	IDENT	LASTOBS	PREC	BOFRANK	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
CPFCR00067WTKY	FLOODPLAIN RIDGE/TERRACE FOREST		S1	N	Y	1991-06	0	0		McCracken	JOPPA		WEST KY WILDLIFE MANAGEMENT AREA, BAYOU CREEK WOODS, CA 2.0 AIR MILE NW OF SHANNICE STEAM PLANT.	

69 Records Processed.

**COUNTY REPORT
OF
ENDANGERED, THREATENED, AND SPECIAL CONCERN
PLANTS, ANIMALS, AND NATURAL COMMUNITIES
OF
KENTUCKY**

**KENTUCKY STATE NATURE PRESERVES COMMISSION
801 SCHENKEL LANE
FRANKFORT, KY 40601
(502) 573-2886 (phone)
(502) 573-2355 (fax)**

www.kynaturepreserves.org

Kentucky State Nature Preserves Commission
Key for County List Report

The attached report lists endangered, threatened, special concern, and historic plants, animals, and natural communities (elements) reported from each county in Kentucky. Within a county, elements are arranged first by taxonomic complexity (plants first, natural communities last), and second by scientific name. A key to status, ranks, and count data fields follows.

STATUS

KSNPC: Kentucky State Nature Preserves Commission status:
N or blank = none E = endangered T = threatened S = special concern H = historic X = extirpated

USESA: U.S. Fish and Wildlife Service status:
N or blank = none C = candidate LT = listed as threatened
LE = listed as endangered

LTNL = Listed Threatened in part of its range, but is not listed in Kentucky (Copperbelly water snake has a special conservation agreement in 14 Kentucky counties as an alternative to Federal Listing.)

RANKS

GRANK: Estimate of element abundance on a global scale:
G1 = extremely rare G2 = rare G3 = uncommon G4 = common G5 = very common
GU = uncertain GH = historically known and expected to be rediscovered GX = extinct

Subspecies and variety abundances are coded with a 'T' suffix; the 'G?' portion of the rank then refers to the entire species.

SRANK:

Estimate of element abundance in Kentucky:
S1 = extremely rare S2 = rare S3 = uncommon
S4 = many occurrences S5 = very common SA = accidental
SRF = reported falsely in literature SU = uncertain SX = extirpated
SE = exotic ? = unknown SH = historically known in state
SZ = not of significant conservation concern SR = reported but without persuasive documentation
S#B - breeding rank for non-resident species S#N - non-breeding rank for non-resident species

COUNT DATA FIELDS

OF OCCURRENCES: Number of occurrences of a particular element from a county. Column headings are as follows:

- E - currently reported from the county
- H - reported from the county but not seen since 1980 (at least 20 years)
- F - reported from county & cannot be relocated but for which further inventory is needed (previously reported as "O")
- X - known to have extirpated from the county
- U - reported from a county but cannot be mapped to a quadrangle or exact location.

The data from which the county report is generated is continually updated. The date on which the report was created is in the report footer. Contact KSNPC for a current copy of the report, which is produced in this form annually.

Please note that the quantity and quality of data collected by the Kentucky Natural Heritage Program are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Kentucky have never been thoroughly surveyed, and new species of plants and animals are still being discovered. For these reasons, the Kentucky Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. Heritage reports summarize the existing information known to the Kentucky Natural Heritage Program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

KSNPC appreciates the submission of any endangered species data for Kentucky from field observations. For information on data reporting or other data services provided by KSNPC, please contact the Data Manager at:

KY State Nature Preserves Commission
801 Schenkel Lane
Frankfort, KY 40601
phone: (502) 573-2886
fax: (502) 573-2355

County Report of Endangered, Threatened, and Special Concern Plants, Animals, and Natural Communities of Kentucky
 Kentucky State Nature Preserves Commission

County	Taxonomic Group	Scientific name	Common name	Statuses	Ranks	# of Occurrences						
						H	F	X	U			
	HABITAT											
McCracken	GASTROPODS	<i>LEPTOXIS PRAEROSA</i>	ONYX ROCKSNAIL CALL (1895) INDICATED THAT IN THE OHIO RIVER AT THE FALLS IT OCCURRED IN THE GREATEST PROFUSION WHERE THE BOTTOM IS CLEAN ROCK OR ROCK WITH ABUNDANT CONFERVOID VEGETATION.*	S	G5/S3S4	0	1	0	0	0		
McCracken	GASTROPODS	<i>LITHASIA ARMIGERA</i>	ARMORED ROCKSNAIL BARS AND POOLS WITH SAND, GRAVEL, AND ROCK SUBSTRATES (KNPC), SLOPING ROCK OUTCROPS WITH POCKETS OF SAND, GRAVEL AND MUD, PARTIALLY BURIED LOGS, AND ROCK RIPRAP (SICKEL 1988).	S	G3G4/S3S4	0	0	0	0	1		
McCracken	GASTROPODS	<i>LITHASIA GENICULATA</i>	ORNATE ROCKSNAIL	S	G3G4/S1	0	3	0	0	0		
McCracken	GASTROPODS	<i>LITHASIA VERRUCOSA</i>	VARICOSE ROCKSNAIL OBSERVATIONS ON THE HABITAT INCLUDE SPECIMENS TAKEN FROM RECENTLY EXPOSED BARS AND POOLS WITH SAND, GRAVEL, AND ROCK SUBSTRATES (HAAG AND PALMER-BALL, PERS COMM).	S	G3G4/S3S4	0	2	0	0	1		
McCracken	BIVALVES	<i>FUSCONAIA SUBROTUNDA SUBROTUNDA</i>	LONGSOLID GRAVEL BARS AND DEEP POOLS IN LARGE RIVERS AND LARGE TO MEDIUM-SIZED STREAMS (AHLSTEDT 1984, GOODRICH AND VAN DER SCHALIE 1944, NEEL AND ALLEN 1984, PARMALLEE 1967).	S	G3T3/S3	0	1	0	0	0		
McCracken	BIVALVES	<i>LAMPSILIS ABRUPTA</i>	PINK MUCKET LARGE RIVERS IN HABITATS RANGING FROM SILT TO BOULDERS, BUT APPARENTLY MORE COMMONLY FROM GRAVEL AND COBBLE. COLLECTED FROM SHALLOW AND DEEP WATER WITH CURRENT VELOCITY RANGING FROM ZERO TO SWIFT (AHLSTEDT 1983, BOGAN AND PARMALLEE 1983, BUCHANAN 1980), B	E/E	G2/S1	2	3	1	0	0		
McCracken	BIVALVES	<i>LAMPSILIS OVATA</i>	POCKETBOOK CONSIDERED A LARGE RIVER SPECIES (CLENCH AND VAN DER SCHALIE 1944, PARMALLEE 1987, STANSBERRY 1979), BUT OCCURS IN MEDIUM-SIZED STREAMS IN GRAVEL, SAND, OR EVEN MUD (PARMALLEE 1967, JOHNSON 1970, GORDON AND LAYZER 1989). IN THE LOWER WABASH AND OHIO RIVERS	E	G5/S1	0	3	0	0	0		
McCracken	BIVALVES	<i>OBOVARIA RETUSA</i>	RING PINK LARGE RIVER SPECIES THAT INHABITS GRAVEL AND SAND BARS (BOGAN AND PARMALLEE 1983, GOODRICH AND VAN DER SCHALIE 1944, NEEL AND ALLEN 1984, STANSBERRY 1976).	E/E	G1/S1	0	1	0	1	0		
McCracken	BIVALVES	<i>PLETHOBASUS COOPERIANUS</i>	ORANGEFOOT PIMPLEBACK USUALLY FOUND IN LARGE RIVERS IN SAND AND GRAVEL SUBSTRATES (AHLSTEDT 1983, BOGAN AND PARMALLEE 1983, MILLER, A.C. ET AL. 1986).	E/E	G1/S1	4	2	2	0	0		
McCracken	BIVALVES	<i>PLETHOBASUS CYPHIUS</i>	SHEEPNOSE USUALLY FOUND IN LARGE RIVERS IN CURRENT ON MUD, SAND, OR GRAVEL BOTTOMS AT DEPTH OF 1-2 METERS OR MORE (BAKER 1928, PARMALLEE 1967, GORDON AND LAYZER 1989).	S	G3/S3	3	5	1	0	0		
McCracken	BIVALVES	<i>PLEUROBEMA RUBRUM</i>	PYRAMID PIGTOE INHABITS MEDIUM TO LARGE RIVERS AND USUALLY OCCURS IN SAND OR GRAVEL BOTTOMS IN DEEP WATERS (AHLSTEDT 1984, MURRAY AND LEONARD 1962, PARMALLEE ET AL. 1982).	E	G2/S1	0	1	0	0	0		
McCracken	BIVALVES	<i>POTAMILUS CAPAX</i>	FAT POCKETBOOK OCCURS IN MEDIUM TO LARGE-SIZED RIVERS OFTEN AROUND ISLAND AND BACK CHANNELS, AND SOMETIMES IN DITCHES, IN MUD (OOZE); MIXED SAND, MUD, AND CLAY; OR FINE SILT AND MUD IN FLOWING WATER AT DEPTHS OF A FEW INCHES UP TO EIGHT FEET (PARMALLEE 1967, AHLSTEDT AN	E/E	G1/S1	1	1	1	1	0		
McCracken	BIVALVES	<i>POTAMILUS PURPURATUS</i>	BLEUFER DEEP STREAMS WITH DEEP MUD AND FAIRLY QUIET POOLS (MURRAY AND LEONARD 1962). IN MISSOURI BOOTHEEL STREAMS, IT IS FOUND IN SMALL TO MEDIUM GRAVEL WITH MUD OCCASIONALLY INTERSPERSED (OESCH 1984). IN THE ST. FRANCIS RIVER OF ARKANSAS AND MISSOURI, INDIVIDUA	E	G5/S1	1	0	0	0	0		
McCracken	BIVALVES	<i>QUADRULA CYLINDRICA CYLINDRICA</i>	RABBITSFOOT SMALL TO LARGE RIVERS WITH SAND, GRAVEL, AND COBBLE AND MODERATE TO SWIFT CURRENT, SOMETIMES IN DEEP WATER (PARMALLEE 1967, BOGAN AND PARMALLEE 1983).	T	G3T3/S2	1	2	1	0	0		
McCracken	CRUSTACEANS	<i>CAMBARELLUS PUER</i>	A DWARF CRAYFISH CYPRESS SWAMPS, STREAMS, AND LOWLANDS (DRAINED WETLANDS) ON THE MISSISSIPPI ALLUVIAL PLAIN, USUALLY AMONG LIVING OR DEAD VEGETATION (PAGE 1985).	E	G4G5/S1	0	0	0	1	0		
McCracken	CRUSTACEANS	<i>ORCONECTES LANCIFER</i>	A CRAYFISH OXBOW LAKES AND STREAMS ON THE GULF COASTAL PLAIN (PAGE 1985), WHERE IT LIVES AMONG ORGANIC DEBRIS, USUALLY NEAR BALD CYPRESS (BURR AND HOBBS 1984).	E	G5/S1	0	1	0	0	0		

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	HABITAT									
McCracken	INSECTS	<i>EUPHYES DUKESI</i>	DUKES' SKIPPER	S	G3/S1	3	0	0	1	0
		SHADED TUPELO SWAMPS IN SOUTH, PARTIALLY SHADED MARSHES AND DITCHES IN MIDWEST (OPLER AND MALIKUL 1992). FEEDS ON SEDGES (CAREX LACUSTRIS AND C. HYALINOLEPIS) (L.D. GIBSON PERS COMM). ON THE ATLANTIC COAST IT ALSO FEEDS ON CAREX WALTERIANA (L.D. GIBSON P								
McCracken	INSECTS	<i>SATYRIUM FAVONIUS ONTARIO</i>	NORTHERN HAIRSTREAK	S	G4T4/S1	0	1	0	0	0
		S. FAVONIUS IS FOUND IN WOODS OR EDGES WITH EVERGREEN OR DECIDUOUS OAKS (OPLER AND MALIKUL 1992). MAIN HABITAT REQUIREMENTS ARE BLACK-JACK OAK (QUERCUS MARILANDICA) AND A NECTAR SOURCE SUCH AS FARKLEBERRY (VACCINIUM ARBORETUM) OR DOGBANE (APOCYNUM CANNAB								
McCracken	FISHES	<i>ACIPENSER FULVESCENS</i>	LAKE STURGEON	E	G3/S1	0	1	0	0	0
		LAKES AND LARGE RIVERS WITH A FIRM SAND/GRAVEL BOTTOM (BURR AND WARREN 1986, ETNIER AND STARNES 1993).								
McCracken	FISHES	<i>ATRACTOSTEUS SPATULA</i>	ALLIGATOR GAR	E	G3G4/S1	0	1	0	0	0
		SLUGGISH POOLS AND BACKWATERS OF LARGE RIVERS, BACKWATERS, AND OXBOW LAKES (BURR AND WARREN 1986, PAGE AND BURR 1991, ETNIER AND STARNES 1993).								
McCracken	FISHES	<i>CYPRINELLA VENUSTA</i>	BLACKTAIL SHINER	S	G5/S3	1	0	0	0	0
		OCCURS IN CREEKS AND SMALL STREAMS OF THE COASTAL PLAIN OVER FIRM SAND AND GRAVEL, OF RIFLES AND RACEWAYS, AND ALONG UNDERCUT BANKS OR AMONG SUBMERGED STUMPS AND LOGS (BURR AND WARREN 1986). ALSO, OVER FIRM SAND OR GRAVEL IN THE MISSISSIPPI AND LOWER OHI								
McCracken	FISHES	<i>ERIMYZON SUCCETTA</i>	LAKE CHUBSUCKER	T	G5/S2	0	1	0	0	0
		LOWLAND LENTIC HABITATS (WETLANDS AND FLOODPLAIN LAKES) WITH SUBMERGENT AND FLOATING VEGETATION (BURR AND WARREN 1986, ETNIER AND STARNES 1993).								
McCracken	FISHES	<i>ESOX NIGER</i>	CHAIN PICKEREL	S	G5/S3	1	0	0	0	0
		COASTAL PLAIN WETLANDS, STREAMS, AND VEGETATED OXBOW LAKE SHORELINES, AND IT ALSO TOLERATES RESERVOIR CONDITIONS (BURR AND WARREN 1986, ETNIER AND STARNES 1993).								
McCracken	FISHES	<i>ETHEOSTOMA PROELIARE</i>	CYPRESS DARTER	T	G5/S2	1	0	0	0	0
		SMALL TO MEDIUM-SIZE SLUGGISH STREAMS, OXBOWS, AND WETLANDS WHERE THE BOTTOM IS SOFT AND AQUATIC VEGETATION ABUNDANT (BURR AND MAYDEN 1979, KUEHNE AND BARBOUR 1983, PAGE 1983, BURR AND WARREN 1986).								
McCracken	FISHES	<i>HYBOGNATHUS HAYI</i>	CYPRESS MINNOW	E	G5/S1	1	2	0	0	0
		OXBOW LAKES AND QUIET WATER OF LOW GRADIENT STREAMS ON THE COASTAL PLAIN AND SHAWNEE HILLS, USUALLY OVER MUD OR SAND BOTTOMS, BUT OCCASIONALLY ASSOCIATED WITH SUBMERGED AQUATIC VEGETATION OR OTHER COVER (BURR AND WARREN 1986, PFLIEGER 1975, SMITH 1979, G								
McCracken	FISHES	<i>ICHTHYOMYZON CASTANEUS</i>	CHESTNUT LAMPREY	S	G4/S2	1	2	0	0	0
		MODERATE-SIZE CREEKS, LARGE RIVERS, AND RESERVOIRS. SUBSTRATE CONSISTS OF GRAVEL AND RUBBLE WITH AREAS OF SAND AND SILT. LARVAE REQUIRE CLEAR STREAMS WITH STABLE BARS OF SILT, SAND AND ORGANIC DETRITUS (BECKER 1983, PFLIEGER 1975, ROHDE AND LANTEIGNE-COU								
McCracken	FISHES	<i>ICTIOBUS NIGER</i>	BLACK BUFFALO	S	G5/S3	4	0	0	0	0
		RESERVOIRS AND MEDIUM TO LARGE RIVERS WITH MODERATE TO LOW GRADIENT AND SOMETIME SWIFT CURRENT (BECKER 1983, PFLIEGER 1975, SMITH 1979, TRAUTMAN 1981, AND BURR AND WARREN 1986).								
McCracken	FISHES	<i>LEPOMIS MINIATUS</i>	REDSPOTTED SUNFISH	T	G5/S2	4	0	0	0	0
		OCCURS IN WELL-VEGETATED SWAMPS, SLOUGHS, BOTTOMLAND LAKES, AND LOW GRADIENT STREAMS (BURR AND MAYDEN 1979, PFLIEGER 1975, SMITH 1979, BURR AND WARREN 1986, ETNIER AND STARNES 1993).								
McCracken	FISHES	<i>LOTA LOTA</i>	BURBOT	S	G5/SU	1	0	0	0	0
		KENTUCKY SPECIMENS GENERALLY COME FROM MEDIUM TO LARGE-SIZE RIVERS. IN THE NORTH, THEY INHABIT COOL, LARGE, AND DEEP RIVERS AND LAKES (BECKER 1983, PFLIEGER 1975, SCOTT AND CROSSMAN 1973, SMITH 1979, TRAUTMAN 1981).								
McCracken	FISHES	<i>MENIDIA BERYLLINA</i>	INLAND SILVERSIDE	T	G5/S2	4	0	0	0	0
		SCHOOLING SURFACE FISH THAT OCCURS IN THE MISSISSIPPI RIVER AND FLOODPLAIN LAKES (BURR AND WARREN 1986, ETNIER AND STARNES 1993).								
McCracken	FISHES	<i>NOTROPIS MACULATUS</i>	TAILLIGHT SHINER	T	G5/S2S3	1	1	0	0	0
		LOW GRADIENT STREAMS, OXBOW LAKES, AND SLOUGHS IN AND AROUND CYPRESS KNEES, MARGINAL VEGETATION, AND ACCUMULATIONS OF STICKS AND DETRITUS (BURR AND PAGE 1975, BURR AND WARREN 1986, ETNIER AND STARNES 1993).								

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HABITAT										
McCracken	FISHES	<i>NOTURUS STIGMOSUS</i>	NORTHERN MADTOM	S	G3/S2S3	2	1	0	0	0
		LARGE STREAMS AND RIVERS IN MODERATE TO SWIFT CURRENT OVER GRAVEL AND SAND, AND SOMETIMES DEBRIS OR PONDWEED FOR COVER (BURR AND WARREN 1986, ETNIER AND STARNES 1993).								
McCracken	FISHES	<i>UMBRA LIMI</i>	CENTRAL MUDMINNOW	T	G5/S2S3	1	0	0	0	0
		RESTRICTED TO DENSE BEDS OF SUBMERGENT AQUATIC VEGETATION OR ORGANIC DEBRIS PILES IN SPRING-FED WETLANDS, DITCHES, AND THE MARGINS OF LOWLAND LAKES OF THE COASTAL PLAIN (BURR AND WARREN 1986).								
McCracken	AMPHIBIANS	<i>AMPHIUMA TRIDACTYLUM</i>	THREE-TOED AMPHIUMA	E	G5/S1	0	0	0	0	1
		THE AMPHIUMAS IS FOUND IN LAKES, OPEN SPRING STREAMS OF RUNNING WATER, AND STREAMS FLOWING OVER CALCAREOUS ROCKS. ALSO RECORDED FROM DRAINAGE DITCHES, BAYOUS, AND WOODED ALLUVIAL SWAMPS (BISHOP 1974), PROBABLY ONLY THE LATTER IN KENTUCKY.								
McCracken	AMPHIBIANS	<i>HYLA CINEREA</i>	GREEN TREEFROG	S	G5/S3	2	0	0	0	0
		FLOODPLAIN WETLANDS, PARTICULARLY THOSE DOMINATED BY BUTTONBUSH AND HERBACEOUS EMERGENT VEGETATION.								
McCracken	AMPHIBIANS	<i>RANA AREOLATA CIRCULOSA</i>	NORTHERN CRAWFISH FROG	S	G4T4/S3	17	1	6	0	0
		BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING GRAYFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.								
McCracken	REPTILES	<i>APALONE MUTICA MUTICA</i>	MIDLAND SMOOTH SOFTSHELL	S	G5T5/S3	1	0	0	0	0
		OPEN WATER HABITATS; MOST NUMEROUS IN OPEN RIVER SITUATIONS WITH GRAVEL OR SAND SUBSTRATES, BUT ALSO PRESENT IN SLOWER RIVERS AND IMPOUNDMENTS.								
McCracken	REPTILES	<i>MACROCLEMYS TEMMINCKII</i>	ALLIGATOR SNAPPING TURTLE	T	G3G4/S2	0	1	0	0	0
		FLOODPLAIN SLOUGHS, BACKWATER AREAS OF LARGER RIVERS, IMPOUNDMENTS. SEEMS TO PREFER MUDDY SUBSTRATE WITH DARK RETREATS INCLUDING MUSKAT AND BEAVER DENS, LOGS, OR SHELTERING VEGETATION.								
McCracken	REPTILES	<i>THAMNOPHIS SAURITUS SAURITUS</i>	EASTERN RIBBON SNAKE	S	G5T5/S3	1	0	0	0	0
		VARIETY OF SEMI-OPEN HABITATS, GENERALLY IN WEEDY OR BRUSHY GROWTH ALONG THE MARGINS OF SLOUGHS, MARSHES AND OTHER AQUATIC HABITATS.								
McCracken	BIRDS	<i>ACCIPITER STRIATUS</i>	SHARP-SHINNED HAWK	S	G5/S3B,S4N	1	0	0	0	0
		FOREST AND OPEN WOODLAND, CONIFEROUS, MIXED, OR DECIDUOUS, PRIMARILY IN CONIF. IN MORE NORTHERN AND MOUNTAINOUS PORTION OF RANGE (B83COM01NA). MIGRATES THROUGH VARIOUS HABITATS, MAINLY ALONG RIDGES, LAKESHORES, & COASTLINES (B83NATO1NA).								
McCracken	BIRDS	<i>AIMOPHILA AESTIVALIS</i>	BACHMAN'S SPARROW	E	G3/SX?B	0	0	0	1	0
		OPEN PINE WOODS WITH SCATTERED BUSHES OR UNDERSTORY, BRUSHY OR OVERGROWN HILLSIDES, OVERGROWN FIELDS WITH THICKETS AND BRAMBLES, GRASSY ORCHARDS.								
McCracken	BIRDS	<i>ARDEA HERODIAS</i>	GREAT BLUE HERON	S	G5/S3B,S4N	0	0	1	0	0
		FRESHWATER AND BRACKISH MARSHES, LONG LAKES, RIVERS, BAYS, LAGOONS, OCEAN BEACHES, MANGROVES, FIELDS, AND MEADOWS.								
McCracken	BIRDS	<i>CORVUS OSSIFRAGUS</i>	FISH CROW	S	G5/S3B	2	1	0	0	0
		BEACHES, BAYS, LAGOONS, INLETS, SWAMPS, NEAR MARSHES, AND, LESS FREQUENTLY, DECIDUOUS OR CONIFEROUS WOODLAND, IN INLAND SITUATIONS PRIMARILY IN BALDCYPRESS SWAMPS AND ALONG MAJOR WATERCOURSES, ALSO GARBAGE DUMPS.								
McCracken	BIRDS	<i>ICTINIA MISSISSIPPIENSIS</i>	MISSISSIPPI KITE	S	G5/S2B	1	0	0	0	0
		TALL FOREST, OPEN WOODLAND, PRAIRIE, SEMIARID RANGELAND, SHELTERBELTS, WOODED AREAS BORDERING LAKES AND STREAMS IN MORE OPEN REGIONS, SCRUBBY OAKS AND MESQUITE.								
McCracken	BIRDS	<i>LOPHODYTES CUCULLATUS</i>	HOODED MERGANSER	T	G5/S1S2B,S3S4N	0	1	0	0	0
		STREAMS, LAKES, SWAMPS, MARSHES, AND ESTUARIES; WINTERS MOSTLY IN FRESHWATER BUT ALSO REGULARLY IN ESTUARIES AND SHELTERED BAYS (B83COM01NA).								
McCracken	BIRDS	<i>RIPARIA RIPARIA</i>	BANK SWALLOW	S	G5/S3B	0	0	1	0	0
		OPEN AND PARTLY OPEN SITUATIONS, FREQUENTLY NEAR FLOWING WATER (B83COM01NA).								
McCracken	BIRDS	<i>TYTO ALBA</i>	BARN OWL	S	G5/S3	2	0	0	0	0
		OPEN AND PARTLY OPEN COUNTRY IN A WIDE VARIETY OF SITUATIONS, OFTEN AROUND HUMAN HABITATION (B83COM01NA). IN NORTHERN WINTER OFTEN ROOSTS IN DENSE CONIFERS, ALSO ROOSTS IN NEST BOXES IF AVAILABLE (B83WARD1NA).								

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McCracken	BIRDS	<i>VIREO BELLII</i>	BELL'S VIREO	S	G5/S2S3B	1	1	0	0	0
			DENSE BRUSH, MESQUITE, STREAMSIDE THICKETS, AND SCRUB OAK, IN ARID REGIONS BUT OFTEN NEAR WATER (B83COM01NA); MOIST WOODLAND, BOTTONLANDS, WOODLAND EDGE, SCATTERED COVER AND HEDGEROWS IN CULTIVATED AREAS, OPEN WOODLAND, BRUSH IN WINT.							
McCracken	MAMMALS	<i>MYOTIS AUSTRORIPARIUS</i>	SOUTHEASTERN MYOTIS	E	G3G4/S1S2	1	0	0	0	0
			THE SOUTHEASTERN MYOTIS USES PRIMARILY CAVES FOR HIBERNACULA AND SUMMER MATERNITY AND ROOSTING SITES.							
McCracken	MAMMALS	<i>MYOTIS SODALIS</i>	INDIANA BAT	E/LE	G2/S1S2	1	0	0	0	0
			INDIANA BATS USE PRIMARILY CAVES FOR HIBERNACULA, ALTHOUGH THEY ARE OCCASIONALLY FOUND IN OLD MINE PORTALS.							
McCracken	MAMMALS	<i>NYCTICEIUS HUMERALIS</i>	EVENING BAT	T	G5/S2S3	3	0	0	0	0
			THE EVENING BAT IS A COLONIAL SPECIES THAT ROOSTS IN TREES AND HOUSES. IT APPARENTLY MIGRATES SOUTHWARD IN WINTER.							
McCracken	COMMUNITIES	FLOODPLAIN RIDGE/TERRACE FOREST		N	S1	1	0	0	0	0
McCracken	COMMUNITIES	WET PRAIRIE		N	S1	1	0	0	0	0



EASTERN SHAWNEE TRIBE OF OKLAHOMA

P.O. Box 350 • Seneca, MO 64865 • (918) 666-2435 • FAX (918) 666-3325

July 23, 2002

Department of Energy
Gary S. Hartman, EIS Document Manager
Oak Ridge Operations Office
PO Box 2001
Oak Ridge, Tennessee 37831

Re: Paducah Gaseous Diffusion Plant,
McCracken County, Kentucky
Portsmouth Gaseous Diffusion Plant,
Pike County, Ohio

Dear Mr. Hartman:

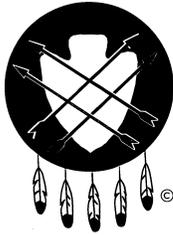
Thank you for notice of the referenced project. The Eastern Shawnee Tribe of Oklahoma is currently unaware of any documentation directly linking Indian Religious Sites to the proposed construction. In the event any items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) are discovered during construction, the Eastern Shawnee Tribe request notification and further consultation.

The Eastern Shawnee Tribe has no objection to the proposed construction. However, if any human skeletal remains and/or any objects falling under NAGPRA are uncovered during construction, the construction should stop immediately, and the appropriate persons, including state and tribal NAGPRA representatives contacted.

Sincerely,

A handwritten signature in cursive script that reads "Charles Enyart".

Charles Enyart, Chief
Eastern Shawnee Tribe of Oklahoma



PEORIA TRIBE OF INDIANS OF OKLAHOMA

118 S. Eight Tribes Trail (918) 540-2535 FAX (918) 540-2538
P.O. Box 1527
MIAMI, OKLAHOMA 74355

CHIEF
John P. Froman
SECOND CHIEF
Joe Goforth

July 26, 2002

Gary S. Hartman
Department of Energy
Oak Ridge Operations Office
P. O. Box 2001
Oak Ridge, Tennessee 37831

RE: DUF conversion facilities

Thank you for notice of the referenced project. The Peoria Tribe of Indians of Oklahoma is currently unaware of any documentation directly linking Indian Religious Sites to the proposed construction. In the event any items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) are discovered during construction, the Peoria Tribe request notification and further consultation.

The Peoria Tribe has no objection to the proposed construction. However, if any human skeletal remains and/or any objects falling under NAGPRA are uncovered during construction, the construction should stop immediately, and the appropriate persons, including state and tribal NAGPRA representatives contacted.

John P. Froman
Chief

xc: Bud Ellis, Repatriation/NAGPRA Committee Chairman

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TREASURER
LeAnne Reeves

SECRETARY
Hank Downum

FIRST COUNCILMAN
Claude Landers

SECOND COUNCILMAN
Jenny Rampey

THIRD COUNCILMAN
Jason Dollarhide



July 26, 2002

TENNESSEE HISTORICAL COMMISSION
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
2941 LEBANON ROAD
NASHVILLE, TN 37243-0442
(615) 532-1550

Mr. Gary S. Hartman
Oak Ridge Operations/DP-80
Post Office Box 2001
Oak Ridge, Tennessee, 37831

RE: DOE, DUF MANAGEMENT/ETTP, OAK RIDGE, ANDERSON COUNTY

Dear Mr. Hartman:

In response to your request, received on Wednesday, July 24, 2002, we have reviewed the documents you submitted regarding your proposed undertaking. Our review of and comment on your proposed undertaking are among the requirements of Section 106 of the National Historic Preservation Act. This Act requires federal agencies or applicant for federal assistance to consult with the appropriate State Historic Preservation Office before they carry out their proposed undertakings. The Advisory Council on Historic Preservation has codified procedures for carrying out Section 106 review in 36 CFR 800. You may wish to familiarize yourself with these procedures (Federal Register, December 12, 2000, pages 77698-77739) if you are unsure about the Section 106 process.

Considering available information, we find that the project as currently proposed **MAY AFFECT PROPERTIES THAT ARE ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES.** You should continue consultation with our office, designated consulting parties and invite them to participate in consultation, and provide us with appropriate survey documentation for review and comment. Please direct questions and comments to Joe Garrison (615) 532-1559. We appreciate your cooperation.

Sincerely,

Herbert L. Harper
Executive Director and
Deputy State Historic
Preservation Officer

HLH/jyg

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AMESQ
Log No. 72373
AUG 8 2002
Date Received _____
File Code _____

